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PPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09 657,179	09 07 2000	Bengt Svensson	3670-18	1904
759	90 03 25 2002			
Nixon & Vanderhye PC			EXAMINER	
1100 North Gleb Arlington, VA	oe Road 8th Floor 22201-4714		LEE, BENNY T	
			ART UNIT	PAPER NUMBER
			2817	
		DATE MAILED: 03-25-2002		

Please find below and/or attached an Office communication concerning this application or proceeding.



Patent and Trademark C to Address: COMMISSIONER OF P. TENTS AND TRADEMARKS Washington, D.C. 20231

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		,	DATE MAILED:
This is a communication	n from the examiner	in charge of your application.	
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statutory period for res	ponse to this action	is set to expire hite (5) honth(s),	from the date of this letter.
espond within the period	for response will ca	suse the application to become abandoned. 35 t	J.S.C. 133
THE FOLLOWING ATT	ACHMENT(S) ARE P	ART OF THIS ACTION:	
hotics of References Cl	ted by Examiner, PT		
Notice of Art Cited by A Information on How to E	opplicant, PTO-1449	4. Notice of informates. PTO-1474 6.	Patent Application, Form PTO-152
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SUMMARY OF ACTION			.*
Ctalms	• •	1-14	are pending to the continue:
			are pending in the application.
Of the above, clai	ims		are withdrawn from consideration.
Diaims			have been cancelled.
Maims			
71811113			are allowed.
Maims		14	are rejected.
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			age objected to,
"laims	- :	are subje	ot to restriction or election requirement.
his application has been	filed with Informal	drawings which are acceptable for examination pu	rooses until such time as allowable states
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Howapie 200/est matter	naving been indicate	d, formal drawings are required in response to this	office action.
he corrected or substitut	e drawings have bee	n received on These	drawings are. acceptable:
] not acceptable (see e.	xplanation).		_ , _
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FECT DRAWING CHAN	31 pe ellected tu 90	cordance with the instructions set forth on the a	tached letter "INFORMATION ON HOW TO
who will agree this made o	f the claim for priori	ty under 35 U.S.C. 119. The certified copy has	Deen received not been received
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EXAMINER'S ACTION W 57179 Art Unit: 2817

The disclosure is objected to because of the following informalities: Page 1, line 11, note that, "for example" should be deleted as being unnecessary; line 30, note that "the said" should be rephrased as --this--. Page 3, line 15, note that "said" should be rewritten as --such-- for a proper characterization; line 22, note that "DESCRIPTION" should correctly be --SUMMARY--. Page 3, line 5, note that "said" should be deleted as being redundant; line 32, note that --BRIEF-should precede "DESCRIPTION". Page 4, line 16, note that --DETAIL DESCRIPTION OF THE --should precede "PREFFERED". Page 5, line 9, note that "115-122" should be rewritten as --115, 116, 117, 118, 119, 120, 121, 122-- such as to be consistent with the labeling in Figure 1. Page 7, line 15 and page 8, line 2, note that "second layer 335" does not appear consistent with "distribution network 335". Page 8, lines 18, 28, note that "415-422" should be rewritten as --415, 416, 417, 418, 419, 420, 421, 422-- such as to be consistent with the labeling in figures 4 The disclosure is objected to because of the following informalities: The and 5, respectively. following reference labels appearing in the corresponding figures need explicit description relative to the specification description of such figures: fig. 1 (123, 127, 128, 129, 130); fig. 2, all labeled features therein; fig. 4, all reference labels except (410, 415-418, 421); fig. 5, all reference labels The abstract of the disclosure is objected to because "(fig. 1)" should be except (415-417). deleted as being unnecessary. Correction is required. See MPEP § 608.01(b).

The drawings are objected to because of the following: In fig. 1, reference label --122-needs to be provided; In figs. 4, 5, reference labels (419, 420, 422) need to be provided; In fig. 5,
reference labels (418, 421) need to be provided. Correction is required.

Art Unit: 2817

Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, note that the recitation "preferably for use in..." renders the claim vague and indefinite. Note that the recitation "in which branches ... propagate in different directions" is vague and indefinite since it is disclosed that the different direction can not be for all branches. In other words, certain branches propagate in a particular direction while certain other branches propagate in a direction different from the particular direction. Clarification is needed.

In claims 1.2, note that reference to "the (other/waveguide) branch" is not definite since it is unclear which one branch is respectively intended.

In claims 4-9, 10, note that it is unclear how the "apertures" (recited herein) relate to the earlier recited "at least one aperture" (e.g. same as, different from etc.).

The following claims have been found objectionable for reasons set forth below:

In claim 4, note that "one and the" should be rewritten as --a-- for a proper characterization.

In claim 6, "their" should be rewritten as --the-- for a proper characterization. Claims 12-14 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Application/Control Number: 09/657,179 Page 4

Art Unit: 2817

Note that the recitation of an antenna arrangement appears to be reciting subject matter which is more comprehensive than the "distribution network" recited in independent claim 1.

Accordingly, such more comprehensive subject matter fails to further limit the distribution network of claim 1.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 10, 12 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Goto.

Goto (figs. 1, 2) discloses a electromagnetic signal distribution system comprising at least two waveguide branches (30) having slots or apertures (36) coupled to feeding waveguide (32). Note that adjacent waveguides (30) have an E field propagation direction which are in opposition (as denoted by the opposing arrows). Moreover, note that this overlap results in a group of slots/apertures (36) arranged along a straight line as is evident from fig. 2. Furthermore, note that each branch has a common polarization by virtue of a horizontal E field orientation. Finally, note that the distribution network is usable in slot antenna applications. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

Application/Control Number: 09/657,179 Page 5

Art Unit: 2817

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goto in view of Park (*810).

Goto discloses the claimed invention except for the specific polarization of claims 5, 7 (i.e. horizontal or vertical.

Park (*810) exemplarily discloses that by appropriately selecting the type of coupling slots, horizontal or vertical polarization can be respectively effected.

Accordingly, it would have been obvious in view of the references, taken as a whole, to have modified the slot or aperture such as to have effected either horizontal or vertical polarization. Such a modification obviously would have provided the advantageous benefit of permitting the user to effect the desired polarization.

Claims 11, 13, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goto in view of Okada.

Application/Control Number: 09/657,179 Page 6

Art Unit: 2817

Okada discloses in fig. 4, thereof a distribution arrangement similar to that in Goto.

Moreover, Okada (fig. b) discloses a physical realization comprising waveguides which are tracks in a conductive layer.

Accordingly, it would have been obvious to have realized the GOTO distribution arrangement as tracks in a conductive material as taught by Acadia (fig. 2). Such a modification would provide the advantages benefit of easier construction have and assembly as compared to the assembly of discrete waveguides in GOTO. Moreover, as an obvious consequence of this modification, an intermediate aperture layer would necessarily been present. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Park ('561) discloses a slot fed distribution arrangement.

Any inquiry concerning this communication should be directed to Benny Lee at telephone number (703) 308-4902.

B. Lee/mm

01/19/02

Bung Lee

Appropriate correction is required.